

AMENDMENTS TO THE CLAIMS

Please amend claims 1 and 16 as follows.

1. (Currently Amended) A method ~~of handling for lock contention management~~, the method comprising the steps of:
 - a first requester transmitting to a lock management system a first request for a particular lock on a resource;
 - wherein said lock management system manages locks on resources that ~~may be~~are granted to a plurality of processes ~~that can~~to access said resource;
 - determining said first request cannot be honored because of a blocking condition;
 - in response to determining said first request cannot be honored:
 - creating first data that indicates the blocking condition; and
 - after creating said first data:
 - storing in a store, as a new item of data in the store, said first data, and
 - ~~receiving a message~~transmitting from said lock management system a message that indicates that said first request to lock a resource is denied;
 - ~~wherein a blocking condition caused the denial of said first request;~~requester receiving said message from said lock management system;
 - wherein said message includes said first data; and
 - based on said first data, said first requester transmitting a second request for notification that indicates when said blocking condition should no longer cause denial of a request for a lock on said resource.

- 1 2. (Original) The method of claim 1, wherein no process of said plurality of processes
2 holds a lock issued by said lock management system for said resource.
- 1 3. (Original) The method of claim 1, wherein the steps further include:
2 said first requester receiving said notification; and
3 in response to receiving said notification, said first requester transmitting another
4 request to said lock management system for said particular lock on said resource.
- 1 4. (Original) The method of claim 3, wherein the step of said first requester transmitting
2 another request includes transmitting second data that indicates that said blocking
3 condition should no longer cause denial of a request for said lock of said resource.
- 1 5. (Original) The method of claim 4, wherein the steps further include said lock
2 management system processing said other request without denial based on said
3 second data.
- 1 6. (Original) The method of claim 1, wherein:
2 a second process of said plurality of processes is performing an operation that causes
3 said blocking condition;
4 said first data identifies another resource locked by said second process for which
5 said first requester may acquire a lock when said blocking condition should no
6 longer cause denial of a request for said lock of said resource; and
7 wherein the step of transmitting said second request includes transmitting a request
8 for said lock on said other resource.
- 1 7. (Original) The method of claim 1, wherein:
2 said first requester is a process of said plurality of processes;
3 wherein said resource is a data block in a b-tree index; and

wherein a second process of said plurality of processes is performing a block split operation on said data block.

8 - 15. (Withdrawn)

16. (Currently Amended) A computer-readable medium carrying one or more sequences of instructions for ~~handling lock contention~~management, wherein execution of the one or more sequences of instructions by one or more processors causes the one or more processors to perform the steps of:

a first requester transmitting to a lock management system a first request for a particular lock on a resource;

wherein said lock management system manages locks on resources that ~~may be~~are

granted to a plurality of processes that ~~can~~to access said resource;

determining said first request cannot be honored because of a blocking condition;

in response to determining said first request cannot be honored:

creating first data that indicates the blocking condition; and

after creating said first data:

storing in a store, as a new item of data in the store, said first data, and

receiving a message~~transmitting~~ from said lock management system a

message that indicates that said first request to lock a resource

is denied;

~~wherein a blocking condition caused the denial of~~
said first request;requester receiving said message from said lock management

system;

wherein said message includes said first data; and

21 based on said first data, said first requester transmitting a second request for
22 notification that indicates when said blocking condition should no longer
23 cause denial of a request for a lock on said resource.
24

1 17. (Original) The computer-readable medium of claim 16, wherein no process of said
2 plurality of processes holds a lock issued by said lock management system for said
3 resource.

1 18. (Original) The computer-readable medium of claim 16, wherein the steps further
2 include:
3 said first requester receiving said notification; and
4 in response to receiving said notification, said first requester transmitting another
5 request to said lock management system for said particular lock on said resource.

1 19. (Original) The computer-readable medium of claim 18, wherein the step of said first
2 requester transmitting another request includes transmitting second data that indicates
3 that said blocking condition should no longer cause denial of a request for said lock
4 of said resource.

1 20. (Original) The computer-readable medium of claim 19, wherein the steps further
2 include said lock management system processing said other request without denial
3 based on said second data.

1 21. (Original) The computer-readable medium of claim 16, wherein:
2 a second process of said plurality of processes is performing an operation that causes
3 said blocking condition;

4 said first data identifies another resource locked by said second process for which
5 said first requester may acquire a lock when said blocking condition should no
6 longer cause denial of a request for said lock of said resource; and
7 wherein the step of transmitting said second request includes transmitting a request
8 for said lock on said other resource.

1 22. (Original) The computer-readable medium of claim 16, wherein:

2 said first requester is a process of said plurality of processes;
3 wherein said resource is a data block in a b-tree index; and
4 wherein a second process of said plurality of processes is performing a block split
5 operation on said data block.

1 23 – 30. (Withdrawn)